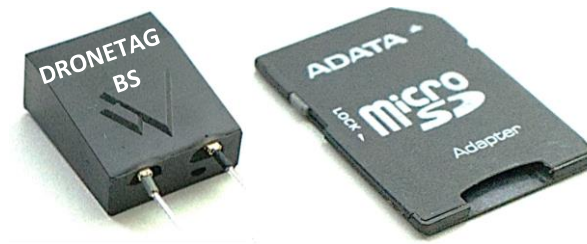


# AMA Advanced Flight System Committee Remote ID Module Status Report Summer 2023



**Dronetag BS**  
Now Available in a case the size of an SD card. The total weight is 3 grams!

26 mm

14 mm

17 mm



**Blue Mark \$107**



**Dronetag Basic Solution (BS) \$89.00**

# 2023 SUMMER STATUS OF FAA COMPLIANT REMOTE-ID MODULES

AMA Advanced Flight System Committee  
Andy Argenio – AMA District 1 VP  
[brandshobby@gmail.com](mailto:brandshobby@gmail.com)

AMA's Advanced Flight Systems Committee members Tyler Dobbs, Tony Stillman, and Andy Argenio have been participating in meetings since 2020 with developers of Remote-ID (RID) modules to evaluate their systems, specifications, and test results. This past year AMA and members flew model airplanes with modules affixed to them from several of the manufacturers. The modules tested proved to be easy to set up, configure and use the recommended cell/iPad display apps. The position data of longitude, latitude, and altitude including the serial number, velocity, and the flight tracking broadcasted and displayed on cell phones/iPads were accurate at ranges over a kilometer. There wasn't any noted RF interference with the onboard R/C systems.

**On September 16, 2023, recreational RC flyers will/may have** to affix an FAA-approved RID module on/in their model aircraft to fly at other than their club FRIA sites. To aid flyers who may want to purchase a module the online PDF version of this AMA RID Module Status Report is updated when a module is listed on the FAA Declaration of Compliance webpage. This report allows pilots to view a chart on page 2 that lists each of the RID modules with their prices and specifications for easy comparisons with active links to seller's websites and datasheets on the GPS receiver and Bluetooth (BT) broadcast module's chips for those who want to explore more technical data.

**All of the modules listed have met or exceeded the FAA's § 89.320** minimum performance requirements including ASTM F3411-22a standards. Today's GNSS/GPS receiver module chips can achieve horizontal position accuracies of between 5ft. to 10 ft. and vertical accuracy of 16 ft. or less 95% of the time. This exceeds FAA's horizontal accuracy requirements of 100 ft., and vertical accuracy of 150 ft. 95% of the time. The maximum broadcast range of the modules is limited to the Bluetooth (BT) range of about 1 km or 3,200 ft.

**This report was submitted on August 15, 2023, when 14 modules** were on the following chart with **12 being standalone plug & play** RID broadcast modules and 2 being for drones already equipped with GPS. Only 4 RID modules from uAvionix, Pierce Aerospace, FliteTest, and Horizon Hobby may be available for order or preorder in the USA however others will be introducing modules in September. Popular listed FAA Modules from Dronetag in the Czech Republic and Blue Mark in the Netherlands, Eur. have been selling in the USA since October of 2022. Some of these will soon be available from USA distributors and retailers.

**Prices vary because the RID module may be with or without** battery and case, or have different versions of GNSS/GPS satellite receiver and Bluetooth (BT) broadcast module chips. The ultra-micro size and lightweight module chips and those with better position accuracy, and range cost more. The BT 5.0/5.1 version chips cost more because they draw much less current providing more hours of runtime, and at 2Mb/sec doubling the data transmit rate and providing better error correction than the older BT 4.0+ versions. Those with features that allow for logging of flight data or data telemetry to user's transmitters and/or network capability will cost more. When and where manufacturing is done and shipped from can add to selling prices. FAA's \$50 estimate cost of modules in 2020 was based on module chips that are now obsolete with less transmission range of data and accuracy.

We recommend that members who want to fly at non-FRIA sites using RID modules keep checking the following chart at [www.amadistrict-i.org/rids](http://www.amadistrict-i.org/rids) to determine RID-module selling prices, availability, and specifications.

	A	B	C	D	E	F	G	H	I
	RID-Module & Website	Availability	Price	Weight	Size inch	Battery	Bluetooth IC Chip	GPS IC Chip	Features
1	<a href="#">uAvionix - pingRID</a> Montana, USA	Backordered	\$299	21 gr.	1.0 x 0.7 x 1.7	2 hours	<a href="#">ESP32-C3-MINI-1</a> v5.0	<a href="#">SAM-M8Q</a>	In a case
2	<a href="#">Blue Mark - Db121pcb</a> Netherlands, Eur.	In stock	\$106	5 gr.	1.3 x 1.4 x .19	Requires 5-14 v	<a href="#">ESP32-C3- WROOM-02</a> v5.0	<a href="#">ATGM336H 5N31</a>	PC board
3	<a href="#">Blue Mark - Db121</a> Netherlands, Eur.	Check Web. for Sept.	\$118	11 grams	1.4 x 1.5 x 1.0	Requires 5-14 v	<a href="#">ESP32-C3- WROOM-02</a> v5.0	<a href="#">ATGM336H 5N31</a>	In a case
4.	<a href="#">Blue Mark - Db120</a> Netherlands, Eur.	Check Web. for Sept.	\$139	25 gr.	1.9 x 1.5 x 1.0	3 hours	<a href="#">ESP32-C3- WROOM-02</a> v5.0	<a href="#">ATGM336H 5N31</a>	In a case
5.	<a href="#">Blue Mark-Db122fpv</a> For drones with GPS	In stock	\$76	4.5 gr.	1.0 x 1.0 x 0.16	Requires 4.5-15 v	<a href="#">ESP32-C3- WROOM-02</a> v5.0	<b>For Drones with GPS</b>	For FPV
6.	<a href="#">Drone Def. AeroPing</a> United Kingdom	Inquire on website	\$199	38 gr.	1.8 x 2.3 x 0.79	8 – 14 hours	<a href="#">ESP32-C3-MINI- 1U</a> v5.0	GPS chip Not published	In a case
7.	<a href="#">Dronetag - Beacon</a> Czech Republic	In stock	\$215	16 gr.	1.5 x 1.0 x 0.6	8 – 16 hours	<a href="#">LAIRD BL653</a> v5.1	<a href="#">MIA-M10Q</a>	In a case
8.	<a href="#">Dronetag Mini network</a> Czech Republic	In stock	\$299	32 gr.	2.1 x 1.3 x 0.6	8 - 16 hours	<a href="#">LAIRD BL653</a> v5.1	<a href="#">MIA-M10Q</a>	In a case Network
9.	<a href="#">Zephyr Systems Db120</a> USA	Reseller of Blue Mark	\$305	25 gr.	1.9 x 1.5 x 1.0	3 hours	<a href="#">ESP32-C3- WROOM-02</a> v5.0	<a href="#">ATGM336H 5N31</a>	Not OEM
10.	<a href="#">Dronetag-Basic Solution</a> Czech Republic	In stock late August	\$89	3 gr.	0.66 x 0.55 x 0.19	Requires 3.3-17 v	<a href="#">ANNA-B412</a> v5.1	<a href="#">MIA-M10Q</a>	PCB/case Telemetry
11.	<a href="#">Dronetag-DRI</a> For Mfg. Czech Republic	Check availability	\$49	1.5 gr. No case	0.89 x 0.62 x 0.19	Requires 3.3-17v	<a href="#">ANNA-B412</a> v5.1	<b>For Drones with GPS</b>	PC board
12.	<a href="#">Aerobits idME</a> Poland	Check Web 3 types RIDs	\$191 - \$250	4 gr.	1.24 x 0.61 x 0.29	Requires 5.0v	<a href="#">ESP32 SERIES</a> v5.0	<a href="#">ZOE-M8B</a>	In a case
13.	<a href="#">Futaba FRID-1</a> Japan	Not for USA Yet Waiting	\$120	9 gr.	0.79 x 1.0 x 0.31	Requires 3.5-8.4v	Bluetooth chip not published	GPS chip Not published	Shrink wrap
14.	<a href="#">B1 Remote ID Beacon</a> Pierce Aerospace USA	Available Sept. ship	\$265	30 gr.	2.87 x 0.94 x 0.75	6 hours	<a href="#">LAIRD BL654</a> v5.0	GPS chip Not published	In a case
15.	<a href="#">EZ-ID</a> FliteTest Ohio, USA	Check Web for Sept.	\$109	10 gr.	Not published yet.	Requires 2S to 8s	<a href="#">NFR52849</a> v5.0	<a href="#">SAM-M8Q</a>	PC board
16.	<a href="#">SKY ID</a> SPMA9500 Horizon Hobby IL, USA	Check Web for Sept.	Under \$100	14 gr.	1.38 x 0.90 x 0.65	Requires 3.3-9 v	Bluetooth v5.0 not publish yet	<a href="#">MIA-M10Q</a>	In a case Telemetry

CHART IS UPDATED AS NEW RID MODULES BECOME AVAILABLE

As of August 15, 2023 there are 14 RID-modules with GPS and Bluetooth broadcast capability listed in this chart. Some are available for purchase and shipping while others will be for September. Please check/click website listings in column (A) for changes in availability, prices, specifications, or GPS or Bluetooth IC component chips.

For the latest versions of this report go to [www.amadistict-i.org/rids](http://www.amadistict-i.org/rids)

(1)



# pingRID

\$299.00

uAvionix Corporation  
300 Pine Needle Lane  
Bigfork, MT 59911  
(844) 827-2372

Meeting the FAA’s Remote ID mandate has never been easier.

The pingRID module is small, lightweight, and easy to attach to any drone, pingRID will keep you flying with trusted aviation-grade avionics from uAvionix. Whether you’re flying for recreation or commercial part 107, pingRID has you covered.



## uAvionix announces pingRID for FAA Mandated Remote ID Broadcast for Drones

02/28/23 | Press Release

Remote ID Broadcast module for drones, pingRID. The aviation-grade, small, lightweight, and easily attached transmitter is the fastest and simplest way for drone operators to be compliant with the FAA Remote ID rule. uAvionix is pleased to apply its avionics experience by delivering a product that meets the FAA’s requirements without sacrificing the drone operators’ time or aircraft performance,” notes Paul Beard, uAvionix CEO and Academy of Model Aeronautics Hall of Famer. “A license plate for your drone needn’t be complex or require an application to run and with pingRID, you simply charge, attach and fly – it’s that easy.”

The uAvionix pingRID comes pre-configured and ready for use out of the box. After assigning the pingRID unique identification number to the aircraft’s registration with the FAA, operators are free to attach the battery-powered device to their drone and prepare for flight. A simple set of LED indicators provides status on the battery charge, device readiness for flight, and inflight operations. The ultra-compact, lightweight design fits most aircraft without impacting performance, and is quickly rechargeable via USB-C.

### Tech Specs

Specification	Value
Compliance	FAA 14 CFR Part 89, DoC RID000000132, ASTM F3411-22a
Protocols	Bluetooth 4 Legacy, Bluetooth 5 Long Range
Frequency	2402 MHz to 2480 MHz
Size	25.40 x 16.63 x 43.42 mm
Weight	21 grams
Charging Connector	USB-C
Battery	Internal Li-ion (740 mWh)
Indicators	Charge LED, Status LED 2 hours on a single charge



[Drone Beacon Transponder](#)

[FAA Compliance Report](#)

[Digi-Key Bluetooth Chip Datasheet](#)

(2)



DroneBeacon Db121pcb RemoteID Broadcast Module

€ 99,00 ex. \$106.84

(3)



DroneBeacon Db121 RemoteID Broadcast Module

€ 109,00 ex. \$117.66

(4)



DroneBeacon Db120 RemoteID Broadcast Module

€ 129,00 ex. \$139.26

FAA approval [PRODUCT PAGE](#)  
[RID000000089](#)

[MANUAL](#)

**Short-range radio**

Bluetooth and WiFi 2.4GHz, output power (ERP): + 20 dBm (100 mW)

**Positioning**

GPS, GLONASS, 2.5m positioning precision < 35 seconds for first fix

**Antennas**

3 dBi WLAN/BLE antenna (IPEX connector)

0 dBi GPS antenna (IPEX connector)

**Power**

2-pin JST-GH 1.25mm connector 5 – 14 V

auxiliary unpopulated 2.54mm 2-pin header 5 – 14 V

**LED lights**

status, configuration mode

**Fastening mechanism**

4x M2 screws

**Operating temperature** -5°C to +40°C

**Dimensions** - 33 x 35 x 5 mm

**Weight** - 5 grams (including antennas)

**(5) Db122fpv FOR FPV OPERATIONS**

*Bluetooth broadcast module only and will require a GPS receiver.* \$76.00

Size - 01x01x0.16

Weight - 4.5 grams

FAA approval [PRODUCT PAGE](#)  
[RID000000088](#)

[MANUAL](#)

**Short-range radio**

Bluetooth and WiFi 2.4GHz, output power (ERP): + 20 dBm (100 mW)

**Positioning**

GPS, GLONASS, 2.5m positioning precision < 35 seconds for first fix

**Antennas**

0 dBi WLAN/BLE antenna (internal omni-directional high-performance PCB antenna)

0 dBi GLS antenna

**Power**

2-pin JST-GH 1.25mm connector 5 – 14 V

**LED lights**

status, configuration mode

**Enclosure**

plastic (nylon)

**Fastening mechanism**

3M dual-lock or M5 screws using the screw noses

**IP rating**

IP43

**Operating temperature**

-5°C to +40°C

**Dimensions**

36 x 38 x 28 mm.

**Weight** - 11 grams

FAA approval [PRODUCT PAGE](#)  
[RID000000058](#)

[MANUAL](#)

**Short-range radio**

Bluetooth and WiFi 2.4GHz, output power (ERP): + 20 dBm (100 mW)

**Positioning**

GPS, GLONASS, 2.5m positioning precision < 35 seconds for first fix

**Antennas**

0 dBi antenna (internal omni-directional high-performance PCB antenna)

**Battery**

LiPo 3.7V 600 mAh, battery life > 3 hours charging, 5V USB-C, 1 hour from a discharged state

**LED lights**

charging, battery level (4x), configuration mode

**Enclosure**

plastic (nylon)

**Fastening mechanism**

3M dual-lock or M5 screws using the screw noses

**IP rating** IP43

**Operating temperature**

-5°C to +40°C

**Dimensions**

48 x 38 x 28 mm.

**Weight** - 25 grams

## (6) Drone Defence AeroPing

[AeroPing Website](#)

[FAA Compliance Report](#)

[ESP32-C3-MINI-1U DATASHEET](#)

[Bluetooth Manual ESP32-C3-MINI-1U](#)



[Digi-Key Bluetooth Chip](#)

Drone Innovation Centre,  
Retford, UK  
+44 (0) 843 289 2805  
info@dronedefence.co.uk



AeroPing operates in a highly independent fashion. It has its own power source and sensors for position, altitude, temperature, pressure, speed and direction.

Simply attach it easily to a drone, and it is ready to be used.

Data can then be accessed in real-time by drone fliers and any relevant authorities **with the necessary permissions** through our **AeroTracker platform**. **(NOTE MAY NEED RECONFIGURATION TO WORK IN USA)**

AeroPing RRP is £150 or \$ **161.65 per module**, to get additional info go to the AeroPing [website](#) and complete a form.

## (7)

### Dronetag Beacon

[Dronetag Beacon Website](#)

[FAA Compliance Report](#)

[Bluetooth Manual Laird BL653](#)



Dronetag s.r.o. Veltruská 602/16  
190 00 Praha 9, **Czech Republic**  
+420 602 870 462  
info@dronetag.cz

[Digi-Key Bluetooth Chip](#)

[BL653 Chip Datasheet](#)



[BUY INFO CLICK](#) \$ 214.89

**Short-range radio** - Bluetooth 2.4GHz  
**Sensors** - GNSS, barometer, accelerometer  
**Positioning** - GPS L1, GLONASS L1, Galileo E1, SBAS  
**Built-in Antennas** Bluetooth and GNSS  
**Optional Antennas** Bluetooth via MMCX plugs  
**External ports** 3.3V extension connector and 5V Micro USB  
**Battery** LiPo 3.7V 200 mAh  
**Battery life** 8-16 hours (depending on the configuration)  
**Charging** 5V Micro USB

**Charging time** - 2 hours from a discharged state  
**Average current consumption** - 15mA  
**Maximum current consumption** - 100mA  
**Enclosure** - plastic  
**Fastening mechanism** - 3M Dual-lock SJ4570  
**IP rating** - IP43  
**Operating temp.** -20 °C to +60 °C (-4 °F to 140 °F)  
**Dimensions** - 37 × 26 × 16 mm (1.5 × 1.0 × 0.6 in)  
**Weight** - 16 grams (0.56 oz.)

**Slap-on device so your drone can legally fly.** Effortless way to let your drone fly safe & compliant in EU and US regions. Direct/Broadcast Remote Identification device compatible with any drone.

What is the difference between this product and ESP32-based ones?

Some Remote ID manufacturers tend to select ESP32 microcontrollers as the base of their OEM solutions without further research. However, *ESP32 systems are well known for questionable production quality, common overheating, electromagnetic noise, and interference issues.* Since Remote ID is a crucial aircraft component, its malfunction can easily force the drone to land in a dangerous situation. **Even though ESP32 MCUs can be more price-competitive, we will never allow our customers to take such unnecessary risks.** Therefore, Dronetag DRI is built on industrial components of non-Chinese origin, and each unit goes through production testing.

**Why is it not a good idea to use Bluetooth and Wi-Fi RID simultaneously?**

Most Remote ID implementations transmitting Bluetooth and Wi-Fi simultaneously don't implement radio coexistence protocols. This means the radio chip is overwhelmed with transmitting requests despite insufficient radio capacity to send out those data. The result is that the device sends out corrupted data at unreliable frequencies (not fulfilling the requirements in standards) while **creating unnecessary electromagnetic noise and interference.**

**Where is the device manufactured?**

All of the devices are manufactured in Prague, Czech Republic, Europe. But the manufacturing site can be changed depending on the customer's needs.

Dronetag Beacon is the bare minimum solution for Direct / Broadcast Remote via Bluetooth 4 and 5. It ensures that your drone is detectable to all air traffic participants and allows you to track the drone in real-time. It may be attached to any drone regardless of its manufacturer and makes you compliant with new EU and US regulations.

(8)

**Dronetag Mini**

[Dronetag Mini Website](#)

[FAA Compliance Report](#)



**[BUY INFO CLICK \\$299](#)**

[Bluetooth Manual](#)  
[Laird BL653](#)

[Digi-Key](#)  
[Bluetooth Chip](#)

[BL653 Chip](#)  
[Datasheet](#)

**Professional Remote ID** Designed for professional pilots. Combination of both Network & Direct / Broadcast Remote ID to make your drone flight safe & compliant.

**Network Remote Identification**

Dronetag Mini transfers your drone's position and identification to our cloud. By displaying the real-time data in our app Dronetag enables advanced drone operations and coordination of manned and unmanned traffic in the same airspace.

**Direct (Broadcast) Remote Identification**

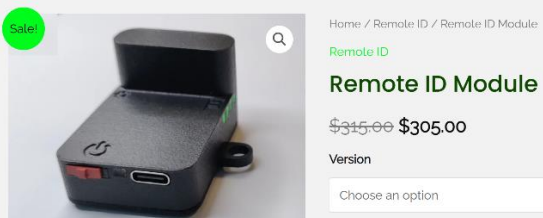
Your drone's info is transmitted via Bluetooth to up to 1.5 km (0.9 miles). With our Direct Remote ID, you fulfil all the new regulation necessities, and you are free to fly & touch the sky!

- Cellular** - LTE-M and Narrowband IoT (NB-IoT)
- Cellular bands:** 3, 8, 20 for the EU and 2, 4, 12 for the US
- Bluetooth** 2.4GHz
- Sensors** - GNSS, barometer, accelerometer
- Positioning** - GPS L1, GLONASS L1, Galileo E1, SBAS
- SIM card** - Chip SIM soldered on the mainboard
- Built-in Antennas** Internal LTE, Bluetooth and GNSS
- Optional Ant.** External LTE and Bluetooth via plugs
- External ports** 3.3V extension connector and 5V
- Micro USB Battery** LiPo 3.7V 500 mAh
- Battery life** 8-14 hours (depending on the configuration)

- Charging** 5V Micro USB
- Charging time** 2 hours from a discharged state
- Average current** consumption 50mA
- Maximum current consumption 1A
- Enclosure** plastic
- Fastening mechanism** 3M Dual-lock SJ4570
- IP rating** IP43
- Operating temperature** -20 °C to +60 °C
- 5°C to +40°C
- Size** 54x35x15 mm (2.1x1.3x0.6 in)
- Weight** 32 grams (1.1 oz)

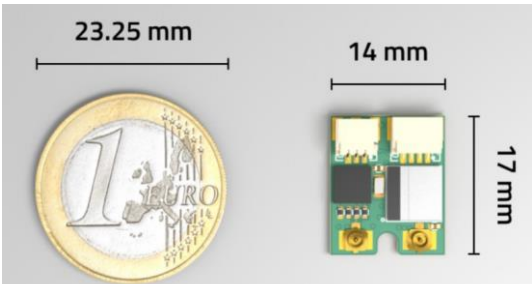
**(9) Zephyr Systems**

**A US reseller of the OEM's Blue Mark Db120 Remote-ID module. All specifications are the same as module (2).**

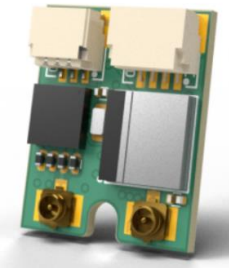


[Zephyr Systems Website](#)

**(10)**



[Dronetag BS Website](#)



- [FAA Compliance Report](#)
- [Bluetooth Manual Anna-B412](#)
- [DigiKey Anna-B412](#)
- [DigiKey MIA-M10Q](#)

**DRONETAG BASIC SOLUTION (BS) – THE RETAIL PRICE IS \$89.00**



Dronetag BS is the best Remote ID solution for FPV pilots, aeromodelers, and recreational pilots. BS offers affordable Broadcast / Direct Remote capability as defined by FAA and EASA. It is the smallest and lightest Remote ID solution making it easier than ever for aeromodelers and FPV pilots to comply with regulations while enjoying their favorite hobby.

External Bluetooth and **Positioning antennas** are not included, you may use your own antennas, or **you can buy one of these:**

- o [Combined Bluetooth + GNSS Positioning Antenna \(U.FL\)](#) \$9.90
- o [GNSS Positioning Antenna - Compact Size \(U.FL\)](#) \$4.90
- o [Bluetooth Antenna - Ultra Small \(U.FL\)](#) \$4.90
- o [Bluetooth Antenna - High Performance \(U.FL\)](#) \$4.90

Dronetag s.r.o. Veltruská 602/16  
190 00 Praha 9, Czech Republic  
+420 602 870 462

The BS can be powered from up to 17V power input, or you can consider optionally using the small 3.7V Li-Po batteries (e.g., 50 mAh can run up to two hours). Batteries must have a JST SH 3-pin connector.

**Data sheet**

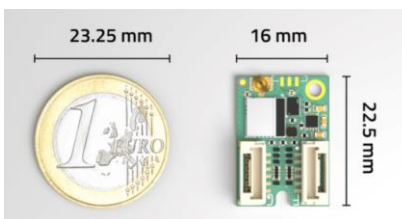
Remote ID types Broadcast (US)  
Short-range radio Bluetooth 2.4GHz  
Average current consumption 15 mA  
Maximum current consumption 50 mA  
Mounting - Adhesive or Velcro  
Operating temperature -40°C to +85°C  
Dimensions- 0.66 x 0.55 x 0.19 in  
**Weight – 3 grams, No Case or Battery**  
Standard ones - configurable in Dronetag app  
Input voltage 3.3 – 17V  
Input voltage regulator  
Low-noise buck converter  
Remote ID Standards  
ASD-STAN EN 4709-002 & ASTM F3411-22  
Certifications Uses FCC/CE approved module  
Remote ID technology  
Bluetooth 5.1 Long Range 1.86 miles/3 km

**Product Details** (new adding 2 wire antennas)

- Easy installation and compatibility with various aircraft hardware setups
- Real-time tracking and Remote ID compliant with the FAA rule.
- Powered from the existing aircraft or a small LiPo battery (up to 17V input) **No LED Status Notification Yet**
- Configuration and firmware updates via Dronetag App
- Can be used as GNSS input to Betaflight controller\*
- Can be used as a telemetry module for popular RC radios\* Spektrum & Futaba
- Flight information logging to flash memory for easy visualization in Dronetag App, Google Earth, or similar\*

\* Functions that will be introduced later via firmware update

(11)



- [Dronetag DRI Website](#)
- [FAA Compliance Report](#)
- [Bluetooth Manual Anna-B4](#)

**\$ 49.00**

**For manufacturers to equip their new drone models** with technology for Direct / Broadcast remote identification (RID). Connect our factory-ready modules to your drone’s flight controller. Dronetag DRI is compatible with all standard Pixhawk controllers running PX4 or Ardupilot. Plug it into your TELEM port, configure the appropriate baud rate, and you are ready to fly. DRI may come with a U.FL connector for an external antenna (for carbon fuselage) or with an internal antenna already on board.

(12) **Aerobits**®

ul. Przestrzenna 11 70-800  
Szczecin, Poland

Aerobits is a Polish technology company that has been operating on a global market since 2017. We deal with miniaturization of avionic systems, such as aviation transponders. All solutions are based on a patented technology that allows to process radio signals on very small surfaces.

**NOTE: These modules from Aerobits idME are not FAA compliant YET, but the specs are provided since they have intentions of seeking FAA compliance as other European mfg. have recently done.**



[PRODUCT INFO](#)

**idME**

Designed to meet requirements of remote drone identification and localization in ASTM/ASD-STAN standard. Using the BLE broadcast technology the device provides surveillance and drone operator identification capability based on any modern mobile devices such as smartphone or tablet.

[PRODUCT INFO](#)

**idME+**

idME+ is designed to meet requirements of remote drone identification and localization in ASTM/ASD-STAN standard. Using the BLE broadcast technology, the device provides surveillance and drone operator identification capability based on any modern mobile devices such as smartphone or tablet.

[PRODUCT INFO](#)

**idME PRO**

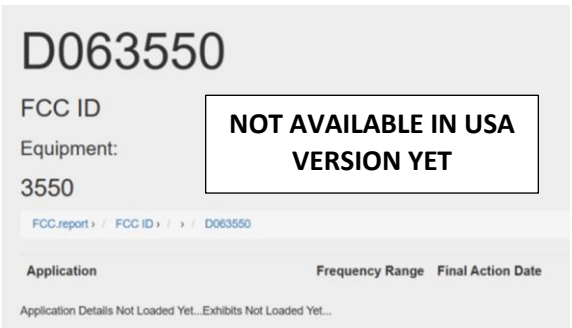
idME PRO is the most advanced Remote ID with WI-FI and BLE technology. It can broadcast in dual technologies: Wi-Fi (NAN and Beacon frames) BT (BLE, and legacy frames). Using the BLE and WI-FI broadcast technology, the device provides surveillance and drone operator identification capability based on any modern mobile device such as a smartphone or tablet.

[CLICK FOR USER MANUAL AND IDME DATA SHEETS](#)

[CLICK FOR USER MANUAL AND IDME+ DATA SHEETS](#)

[CLICK FOR USER MANUAL AND IDME PRO DATA SHEETS](#)

(13)



**FAA Accepted but Exhibits not posted yet!**  
Check at: <https://fcc.report/FCC-ID/D063550>

Their unit is small in size, 20x30x8 mm very thin. It won't have the extra weight and cost of a battery and case... and may use a Y extension to the receiver's battery for power. It operates on 3.5 - 8.4 v. and draws only 18 ma. It appears to use internal antennas and a simple shrink-wrap casing like an ESC or some satellite receivers. We are waiting for Futaba & FAA to post additional information.

(14)



## B1 Remote ID Beacon

\$264.95

The B1 Remote ID beacon offers superior local broadcast performance to meet the FAA's Remote Identification requirements. The B1 comes from a military heritage and has been proven in national security operations with commercial and public safety operators. It is now available to all.

Made in the USA (With Import and US Components).  
Customer support in the USA.  
Exceeds the ASTM F3411-22 Remote ID Standard.

## [WEBSITE](#)

**Features:**

- Built from Military Heritage
- High Performance Local Broadcast
- Meets and Exceeds ASTM Standards
- 2+ km Range
- 6+ hr Runtime per Charge
- Designed and Made in the USA

**PIERCE AEROSPACE INC**

info@pierceaerospace.net  
Indiana IoT Lab  
Fishers, IN 46038

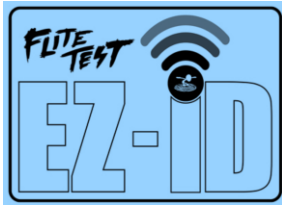
<b>Radio Specifications:</b>	<b>Electrical Specifications:</b>	<b>Mechanical Specifications:</b>
Antenna Type      PCB Antenna	Input Voltage Rating    3.75V - 6.00V	Dimensions (LWD)      73mm x 24mm x 19mm
Frequency            2400-2480MHz	Input Amperage Rating 225 mA max	Weight                    30g
Radiation Pattern   Omnidirectional	Input Wattage Rating   843 mW max	Mounting                Two Cable Tie Slots
Max Output Power   +18dBm conducted	Battery Type            Lithium Polymer	Connector                USB-C
<i>Operational output power within FCC/ISED limits</i>	Battery Capacity        400mAh	Operating Temperature   -20 °C to + 76°C
	Battery Endurance      6hr	Storage Temperature     10°C to + 70°C
	Charge Time             4hr	Operating Humidity      0% - 95% non-condensing
		Storage Humidity        0% - 70% non-condensing

[FAA Compliance Report](#)

[Bluetooth Manual  
Laird BL654](#)

[BL654 Chip  
Datasheet](#)

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\$ 109.00

WEBSITE

Bluetooth Module  
NRF52840

GPS Module  
SAM-M8Q



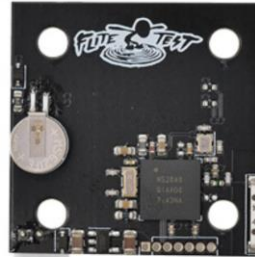
With Connector

or

Without Connector

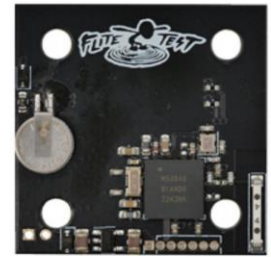
Flite Test, in conjunction with Tritium Electronics, a leader in electronics assembly, has designed a USA-developed and manufactured Remote ID Broadcast Module, the Flite Test EZ ID which will be available in production volumes in August of 2023.

FT EZ ID provides an excellent, high-value solution for both RC model airplane pilots as well as recreational drone pilots. Its light, has internal antennas, and has integrated GPS and Bluetooth 4 and 5 transmitters. The FT EZ ID is also designed to be installed easily and then removed and installed on a pilot's entire fleet of recreational aircraft.



With Connector

or



Without Connector

- The GPS is integrated in the single-board, FT EZ ID and the chip is GPS an uBlox SAM-M8Q.
- The Bluetooth transceiver is a Nordic NRF52840 chip.
- The average power draw of the FT EZ ID is 10mA. This may spike as high as 100mA when establishing an initial fix and during other short operation intervals.
- The FT EZ ID has been tested in an unobstructed area transmitting at a distance of 1500ft.
- Cold start up is approximately 53 seconds and warm start is usually less than 20 seconds.
- The price of the FT EZ ID covers no recoverable expense to design, prototype and develop software as well as the rapidly rising cost of electronic components.
- FT EZ ID is a purpose-designed remote ID broadcast module for recreational pilots in the USA.
- THE FT EZ ID may be ordered from the Flite Test online store as well as select online retailers in the recreational RC and FPV industry.
- Software will be added in future for additional features beyond broadcasting.
- THE FT EZ ID transmits Bluetooth 4 and 5 for mobile devices.
- Flite Test Customer Support is available to respond to questions about the FT EZ ID. However, the FT EZ ID only requires power and then is ready to operate.
- The FT EZ ID may be installed anywhere inside or on the exterior of a recreational aircraft. Radio frequency performance of the FT EZ ID will improve if it is installed on the exterior of an aircraft



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INTRODUCING

# SKYID™

COMING SOON

SkyID is an easy-to-use module for RC aircraft that meets the requirements of the FAA rule of RID (Remote ID) of unmanned aircraft.

LOOK FOR MORE DETAILS COMING LATER THIS SUMMER

Horizon and Spektrum are proud to announce the SkyID Remote Identification Module. This module will be available closer to the remote id compliance date of September 16th, 2023. SkyID will be **under \$100.00** and provides GPS features through Spektrum telemetry but is also compatible with non-Spektrum radio systems as a standalone device.

**\$69.99 Introductory Price**

**Weight – 14 grams**

**Size – 1.38" x .90" x 0.65"**

**Power required – 3.3 – 9v**

**or from RC receivers power**

**FAA COMPLIANCE REPORT** [CLICK](#)



Watch on YouTube



Watch Video

**Quick Start Guide**

**IMPORTANT:** Know and comply with all laws for the operation of Unmanned Aircraft Systems (UAS).

1. Register your serial number with the FAA.
  1. Open the FAA DroneZone website.
  2. Register and/or log into the DroneZone.
  3. Launch the Drone owners and pilots dashboard.
  4. Select **Manage Device Inventory**.
  5. Select **Add Device**.
  6. Does your drone broadcast remote ID information? Select **Yes**.
  7. Device type? Select **Remote ID broadcast module**.
  8. UAS manufacturer? Enter **Spektrum**.
  9. UAS Model? Enter **SPMA9500 SkyID**.
  10. Remote ID Serial Number? Enter number from sticker on case.



FAA DroneZone



11. Select **Add Device**.
2. Secure the SPMA9500 module to your aircraft.



3. Connect to a Spektrum telemetry port, an open servo port (up to 9v), or a 3.3v to 9v power source.



4. Verify operation by viewing solid LED or Remote ID mobile app.

**LED Status Guide**

Slow flash	Acquiring GPS signal, wait to fly
Solid	Ready, fly safely
Rapid flash	Error, do not fly

5. Fly!

